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DFRC REQUEST FOR ENVIRONMENTAL IMPACT ANALYSIS		CONTROL NUMBER 99-01			
INSTRUCTIONS: Section I to be completed by Proponent. S Continue in Block 19 or attach additional sheets as necessary	ections II and III to be completed by the Safety, Health & Environr . Reference appropriate item number(s)	nental O	lfice.		
SECTION I - PROPONENT INFORMATION					
TO: Environmental Officer Safety, Health & Environmental Office 2. FROM: (Proponent organization and functional address symbol) Code Y, MS: D1623H			2a. TELEPHONE NO. 2482		
3. TITLE OF PROPOSED ACTION/START DATE GTE PEM Tropics B DC-8 Payload Integration		3/6/99			
4. PURPOSE AND NEED FOR ACTION (Describe why you i	need to take this action.)	-			
the NASA Dryden DC-8 to develop instrumer	is the loading and performance of in-flight air sam nt technology, test new instruments, and make m equired to collect data for experiments in support nic scientific communities.	odifica	tions b	ased o	חו
5. DESCRIPTION OF PROPOSED ACTION AND ALTERNAT	TIVES (DOPAA) (Provide sufficient details for evaluation of the t	otal actio	n.)	-	
at Dryden to load instruments into the DC-8 ai payload instruments will occur at Dryden. Addi Nadi, Fiji; Papeete, Tahiti; Easter Island; San experiments will include the use of Class 3 and atmospheric monitoring. A small quantity of tox	sic research studies of the Earth's atmosphere.T irborne science laboratory equipment racks. Limi tional staging and operation of the payload shall of Jose, Costa Rica and in flight between these local di Class 4 lasers. A sealed ionizing radiation sour- tic gas will be used as chemical standards during a	ted ope occur a tions. ce will	eration t Hilo, I Airborn be used ople and	of the dawaii; e rese d for alysis.	;
6. PROPONENT 6a. SIGNATURE		6b. DATE			
Chris Miller			2/8/9	9	ļ
SECTION II - PRELIMINARY ENVIRONMENTAL ANALYSIS environmental effects and mitigations.) (+ = positive effect; 0 =	(Check appropriate box and describe potentail no effect; -= adverse effect; U = Unknown effect)	+	0	-	υ
7. AIR INSTALLATION COMPATIBLE USE ZONE (Noise, accident potential, land use, etc.)			Х		
8. AIR QUALITY (Emmissions, atteinment status, state implementation plan, etc.)			Х		
9. WATER RESOURCES (Quality, quanity, source, etc.)			Х		
10. SAFETY & OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exposure, explosives safety quanity-distance, etc.)			Х		
11. HAZARDOUS MATERIALS/WASTE (Use/storage/generation/solid waste, etc.)			Х		
12. BIOLOGICAL RESOURCES (Wetlands/Floodplains, flora, fauna, etc.)			Х		
13. CULTURAL RESOURCES (Native American burial sites, archeological, historical etc.)			Х		
14. GEOLOGY & SOILS (Topography, minerals, geothermal, Superfund Program, seismicity, etc.)			X		
15. SOCIOECONOMIC (Employment/population projections, school and local fiscal impacts, etc.)		<u> </u>			
16. OTHER (Potential impacts not addressed above.) None		Х		l 	
SECTION III - ENVIRONMENTAL ANALYSIS DETERMIN					
17. X PROPOSED ACTION QUALIFIES FOR CATEGOR PROPOSED ACTION DOES NOT QUALIFY FOR A	CAL EXCLUSION (CATEX) # 4.2(3); OR A CATEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQU	IIRED.	.,,,,,,		
18. SHE OFFICE CERTIFICATION 18a. SIGNATURE			18b. DATE		
Dan Mullen Daniel F. Mullen		2/25/99			

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19. REMARKS: (Continuation sheet. Use additional sheets as necessary)

AIR QUALITY: A short-term degradation of air quality may be expected during the operation of the DC-8 aircraft. These emissions will be minor and are well below the diminimus thresholds for non-attainment areas; therefore, a formal conformity determination is not required. Impacts to Air quality from this project are minimal.

Positive impacts to air quality may result from this project as resulting meteorological and atmospheric chemistry data is incorporated into air quality management practices.

SAFETY AND OCCUPATIONAL HEALTH: A Certified Industrial Hygienist will be in support of this project. All applicable laws, regulations, and standard procedures will be followed for project activities. Hazard risk reduction actions contained in the Project Hazard Reports will be implemented.

Lasers will be operated in accordance with the Laser Safety Plan which is approved by the Dryden Laser Safety Officer (LSO). The LSO will stipulate appropriate requirements in the Laser Safety Permit.

The sealed foil type 5 mCi ionizing radiation source will be handled in accordance with the Radiation Protection Program which is approved by the Dryden Radiation Safety Officer.

Toxic gases will be handled in accordance with applicable guidelines contained in the DC-8 Handbook.

HAZARDOUS MATERIALS/WASTE: Hazardous materials/waste will be handled in accordance with applicable regulations.

SOCIOECONOMIC: A minor positive impact will result in the local economy from the temporary stay of scientists and researchers.

MITIGATION MEASURES: No significant impacts are identified on this project; therefore no mitigation measures are required.

CONCLUSION: Based on the above environmental impact analysis, it is concluded that activities occurring at Dryden are categorically excluded actions [NASA 4.2(3)] that do not substantially impact the human environment; therefore, neither an EA nor an EIS is required.

PROJECT REQUIREMENTS: In accordance with Executive Order 12114, "Environmental Effects Abroad of Major Federal Actions", and 14 Code of Federal Regulations Part 1216.321, the cognizant Headquarters program official shall determine the environmental effects of this project that occur outside the United States and its territories and possessions (abroad). If it is determined that this project will not have a significant environmental effect abroad, the Headquarters official shall prepare a memorandum for the record which states the reasoning behind such a determination.